

CURRICULUM VITAE



Name Dr. ASHIF SAJJAD
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SCIENTIFIC EMPLOYMENT AND ACADEMIC RESPONSIBILITY

<u>Research Institution or University</u> Name and place	<u>Period of duty</u> From to	<u>Academic</u> <u>responsibilities</u>
1. Institute of Biochemistry, University of Balochistan, Quetta, Pakistan.	Oct., 2008 to date	ASSISTANT PROFESSOR (TEACHING/RESEARCH)
2. Institute of Biochemistry, University of Balochistan, Quetta, Pakistan.	April, 2000-Oct., 2008	LECTURER (TEACHING/RESEARCH)
3. Biochemistry Department, Bolan Medical College, Quetta, Pakistan	Sept., 1998-April, 2000	MEDICAL LAB. TECHNOLOGIST (TEACHING)
4. Arid Zone Research Center, Pakistan Agriculture Research Council, (PARC)Quetta, Pakistan.	Feb., 1995-Sept., 1998	TRAINIEE SCIENTIST (RESEARCH)

EDUCATION (higher degrees)

<u>University or equivalent</u> Name and Place	<u>Year attended</u> From to	<u>Degree</u>
UNIVERSITY OF CALABRIA ARCAVATA DI RENDE (CS) ITALY (Prof. G.Sindona)	Dec., 2006- July, 2007	Post-Doc.
UNIVERSITY OF CALABRIA ARCAVATA DI RENDE (CS) ITALY	2003-2006	Ph.D.
UNIVERSITY OF BALOCHISTAN, QUETTA, PAKISTAN	1991-1994	M.Sc. (BIOCHEMISTRY) (Distinction in M.Sc 3 rd Position)
UNIVERSITY OF BALOCHISTAN, QUETTA, PAKISTAN	1989-1991	B.Sc

Scholarship/Award/fellowship:

1. Italian Government scholarships for Postgraduate studies (for Ph.D. studies 2003-2006).
2. Charles Wallace Visiting Fellowship (April-June, 2013)

Teaching interest:

My Teaching interest is in the field of Biological Chemistry (Biochemistry, Biotechnology, and Molecular Biology) as well as Bio-analytical techniques, Molecular techniques (Genomics & Proteomics)

Description of research achievements/experience:

I have an extensive academic background in biological sciences combined with a strong practical work experience in basic research, especially in molecular and cellular biology fields. My main research area has been so far the extraction & characterization of protein by utilizing the techniques; SDS-PAGE, Gel analysis for the determination and characterization of protein & peptides in food stuff as well as in biological fluids and further analyses of the peptides mixture by MALDI TOF/TOF and data matching.

During my PhD and research activities at University I also contributed to other projects and the results are mentioned in the publication in the Journal and poster presentation, respectively. My research experience in different topics gave me a good flexibility of mind, and enabled me to learn and improve many techniques in molecular and cellular biology fields.

Currently I have been working as Assistant Professor. My responsibilities are teaching/research and to supervise the M.Phil/Ph.D scholars with the research group, in order to motivate the research scholars and to let them be more and more aware of research work they are encourage to participate in conferences/seminars. So far as supervisor I have produced 5 M.Phil Scholars.

I am highly motivated, hardworking and results driven, and a good team player. Throughout my career, I obtained a good communication and organizational skills. I love scientific research, and this passion always induced me to solve difficult challenges and to achieve my goals.

For my future career, I see to excel in research and teaching as this is an ideal way to broaden my knowledge and scientific activity.

Analytical techniques (learnt/used during my research):

- PCR. DNA Sequencing
- Agarose, acrylamide Electrophoresis. 1D and 2D SDS PAGE.
- DNA Sequencing. (HPLC) High performance liquid chromatography.

International collaboration

- Olive Culture Research Institute Consiglio per la Ricerca e la sperimentazione in Agricoltura Centro di Ricerca per l'Olivicoltura e l'Industria Olearia (CRA-OLI) (CS), ITALY
- Department of Chemistry, University of Calabria, (CS) Italy.
- Biomedical Research Center, Faculty of Health and Well being, Sheffield Hallam University, UK.

Major research grants.

- 2014. Determination of Geographical impact on biochemical profile of Olive grafted with European type grown in Balochistan. National Research Programme for Universities. Awarded by Higher Education Council, Pakistan. No.20-2735/NRPU/R&D/HEC/12 156. Rs.1.4 Million.
- 2003 Status of Vitamin-A (Retinal) in Children and Lactating Mothers of Quetta. Awarded by Univeristy of Balochistan, Quetta. Rs.40,000.

Supervised M.Phil dissertations completed. At the Department of Chemistry, SBK Women's University, Quetta.

1. **Ms. Ayesha Ubaid.** Analysis of Heavy metals (As, Pb, Hg, Co, Mn & Cr) in Meat, Kidney and liver of Beef, Chicken & Mutton sold in Quetta. 2013.
2. **Ms. Fazeela Mandokhail.** Electrophoretic Characterization of Seed Storage Protein of *Pistacia khinjuk* from Balochistan. 2013.
3. **Ms. Shagufta Aziz.** Prevalence of Iron Deficiency Anemia among the Afghan Refugee Pregnant Women. 2013.
4. **Ms. Shagufta Fahmid.** Detection of Aflatoxin M1, Chemical Composition, Hygienic Status and Various Adulterants in fresh milk marketed in Quetta city. 2013.
5. **Ms. Rabia Bibi.** Frequency of HBV surface antigen and antibodies to Hepatitis C virus among volunteer blood donors in Zhob District. 2013.

Co-Supervised M.Phil dissertations completed. (at University of Balochistan, Quetta).

1. Ms. Sabeena Rizwan. Isolation, Purification, Kinetics and Biotechnological potentials of PLD. 2013.

Current M.Phil/Ph.D. Thesis Supervision

04 M.Phil registered and 01 Ph.D. to be supervised.

Journal Reviewer.

- Food Chemistry - Journal – Elsevier.
- Journal of the American Society for Horticultural Science.
- Advances in Agriculture, Hindawi Publishing Corporation.
- Journal of Applied and Emerging Sciences, BUITMS, Quetta.

Major professional services.

- Member, Higher Education Commission (HEC) National curriculum revision committee (NCRC).
- In-charge Bio-Analytical laboratory for M.Sc. previous practicals & M.Sc final thesis research work.
- Member admission committee of the Institute of Biochemistry.
- Member of the committee for course/syllabus contents development.
- Member of Program Team (Self Assessment Procedure) of the Institute of Biochemistry
- External expert for self assessment report of Department of Chemistry, by the Director, Quality Assurance, University of Balochistan, Quetta.

LIST OF INTERNATIONAL PAPERS PUBLISHED Impact Factor=23.83 (Citations=53)

1. Muhammad Hassham Hassan Bin Asad, Ghulam Murtaza, Muhammad Ubaid, Durr-e-Sabih, **Ashif Sajjad**, Rubada Mehmood, Qaisar Mahmood, Muhammad Muzzmil Ansari, Sabiha Karim, Zahid Mehmood, and Izhar Hussain. Naja naja karachiensis Envenomation: Biochemical Parameters for Cardiac, Liver, and Renal Damage along with Their Neutralization by Medicinal Plants. *BioMed Research International*, **2014**. Volume 2014, 13 pages Article ID 970540, <http://dx.doi.org/10.1155/2014/970540>. **Impact Factor=2.88**
2. Israr Ahmed, **Ashif Sajjad**, Zahid Mehmood, Norhad Amir, Durr-e-Sabih, Muhammad Hassham Hassan Bin Asad, Syed Nisar Hussain Shah, Bilal Ahmed, Muhammad Jamal Taha, Shujaat Ali Khan, Fareeha Anwar, Muhammad Haneef and Ghulam Murtaza. Preparation and Radiochemical Control of ^{99m}Tc Labeled Blood Pool Agent for in vivo Labelling of the Red Blood Cells. *Acta Poloniae Pharmaceutica-Drug Research*, **2014**. Vol. 71 No. 2 pp. 245-248. **Impact Factor=0.67**
3. Ghulam Murtaza, Kuo Gao, Tiegang Liu, Imran Tariq, **Ashif Sajjad**, Muhammad Rouf Akram, Meiying Niu, Guokai Liu, Zahid Mehmood, and Guihua Tian. Current and Future Lymphatic Imaging Modalities for Tumor Staging. *BioMed Research International*. **2014**. Volume 2014, pp 1-10. Article ID 714674, <http://doi.org/10.1155/2014/714674>. **Impact Factor=2.88**.
4. Khalid Mahmood, Saleem Eijaz, Moazzam Ali Khan, Aamir Alamgir, Syed Shahid Shaukat, Zahid Mehmood and **Ashif Sajjad**. Effects of Biopesticides against Jassid [*Amrasca Devastans* (Dist.)] and White Fly [*Bemisia Tabaci* (Genn.)] on Okra. *Int. J. Biol. Biotech.*, **2014**, 11 (1), pp. 161-165, 2014. **Impact Factor=N.A (HEC Z Category acceptable for BPS appointment)**
5. Niamatullah kakar, Asmatullah, Habib Ur-Rehman, Zahid Mehmood, **Ashif Sajjad**, Qudratullah, Mohammad Ashraf. Thrombocytopenia as a Diagnostic Marker for Identifying Patients with Malaria in Endemic Regions. *International Journal of Advanced Research*. **2014**, Volume 2, Issue 4, pp. 35-42. **Impact Factor=N.A**
6. Ayesha Sethi, Muhammad Sher, Muhammad Rouf Akram, Sabiha Karim, Sonia Khiljee, **Ashif Sajjad**, Syed Nisar Hussain Shah, Ghulam Murtaza. Albumin as a drug delivery and diagnostic tool and its market approved products. *Acta Poloniae Pharmaceuticae-Drug Research*, **2013**. Vol. 70 No. 4 pp. 597-600. **Impact Factor=0.67**
7. Muhammad Jawad Nasim, Muhammad Hassham Hassan Bin Asad, **Ashif Sajjad**, Shujaat Ali Khan, Amara Mumtaz, Kalsoom Farzana, Zarmina Rashid, Ghulam Murtaza. Combating of scorpion bite with Pakistani medicinal plants having ethno-botanical evidences as antidote. *Acta Poloniae Pharmaceutica - Drug Research*, **2013**. Vol. 70 No. 3 pp. 387-394. **Impact Factor=0.67**
8. Ghulam Murtaza, Usman Latif, Muhammad Najam-ul-Haq, **Ashif Sajjad**, Sabiha Karim, Muhammad Akhtar and Izhar Hussain. Resveratrol: An Active Natural Compound in Red Wines for Health. *Journal of Food and Drug Analysis*, **2013**. Vol. 21, No. 1, pp 1-12 doi:10.6227/jfda.2013210101. **Impact Factor=0.33**
9. Khalid Mahmood, Hasan Salman Siddiqi, **Ashif Sajjad**, Sohail Shoukat, Zahid Mehmood, Amir Wasim, Alia B. Munshi. Iron-deficiency anemia. A study of risk factors among adult population of Quetta Valley. *Health*, **2012**. Vol 4 No 9, pp. 607-611. doi: 10.4236/health.2012.49095. **Impact Factor=0.16**

10. Fabio Mazzotti, Leonardo Di Donna, Loredana Maiuolo, Anna Napoli, Raffaele Salerno, **Ashif Sajjad**, and Giovanni Sindona. Assay of the Set of All Sudan Azodye (I, II, III, IV, and Para-Red) Contaminating Agents by Liquid Chromatography-Tandem Mass Spectrometry and Isotope Dilution Methodology. *J. Agric. Food Chem.* **2008**, *56*, 63–67. **Impact Factor=2.91**
11. Antonio De Nino, Leonardo Di Donna, Fabio Mazzotti, **Ashif Sajjad**, Giovanni Sindona, Enzo Perri, Anna Russo, Luigi De Napoli, Luigino Filice. Oleuropein expression in olive oils produced from drupes stoned in a spring pitting apparatus (SPIA). *Food Chem.* **2008** Vol. 106, pp. 677-684. **Impact Factor=3.33**
12. Leonardo Di Donna, Fabio Mazzotti, Anna Napoli, Raffaele Salerno, **Ashif Sajjad**, Giovanni Sindona. Secondary metabolism of olive secoiridoids. New microcomponents detected in drupes by electrospray ionization and high-resolution tandem mass spectrometry. *Rapid Commun. Mass Spectrom.* **2007**, Vol. 21, No 3, pp. 273–278. **Impact Factor=2.51**
13. Innocenzo Muzzalupo, Nicola Lombardo, Aldo Musacchio, Maria Elena Noce, Giuseppe Pellegrino, Enzo Perri, and **Ashif Sajjad**. DNA Sequence Analysis of Microsatellite Markers Enhances Their Efficiency for Germplasm Management in an Italian Olive Collection. *Journal of the American Society for Horticultural Science*, 2006, Vol.131, No.3, pp. 352-359. **Impact Factor=1.12**
14. Anna Napoli, Donatella Aiello, Leonardo Di Donna, **Ashif Sajjad**, Enzo Perri, and Giovanni Sindona. Profiling of Hydrophilic Proteins from *Olea europaea* Olive Pollen by MALDI TOF Mass Spectrometry. *Analytical chemistry*, **2006**, Vol. 78, n, 10, pp 3434 – 3443. **Impact Factor=5.70**
15. Mohammad Azam, **Ashif Sajjad**. Study of miscibility of poly(ethylene-vinyl alcohol)-graft-poly(methyl methacrylate) graft copolymers with poly(vinyl chloride). *Science International*, 2003, Vol. 15, No. 1, 41-43. **Impact Factor=N.A (HEC Z Catagory)**
16. Mohammad Azam, **Ashif Sajjad**. Solution properties of poly(ethylene-vinyl alcohol)-graft-poly(methyl methacrylate) graft copolymers. *Res. Journal Univ. of Balochistan*, 2003, Vol.1, No. 3; pp12-16. **Impact Factor=N.A**
17. Khalid Mahmood, Zahid Mehmood, **Ashif Sajjad** and Abbas Haider Khan. Biological Role of Carbohydrate Moeity of Plasmodium Falciparum in immune Response to malaria. *Res. Journal Univ. of Balochistan*, 2003, Vol. 1, pp 1-11. **Impact Factor=N.A**

Other published work.

1. Nicola Lombardo, Innocenzo Muzzalupo, Enzo Perri, **Ashif Sajjad**. “*Microsatellite markers for Olive (Olea Europea. L.) cultivar identification*”. International Olive oil exhibition, 12-13 May 2005 Jaén Spain. pp 1-8. Available at: <http://www.expoliva.com/expoliva2005/>
2. **Ashif Sajjad**, Innocenzo Muzzalupo, Enzo Perri, Giovanni Sindona. “Characterisation of olive germplasm from Abruzzo, Apulia, Molise, Tuscany and Sicily regions by microsatellite markers”. Proceedings of 3rd Workshop on the Contribution of Chemistry, Molecular Biology and Medicinal Chemistry to Life Sciences. 2006. pp. 36-50. ISBN: 88-548-0736-2.

PAPERS/POSTERS PRESENTED:

1. Sara Ansari, Shagufta Fahmid, **Ashif Sajjad** and Jaffar Ali. Emerging Quality assessment of fresh yogurt in Quetta. Horizons of Agricultural Extension for Sustainable Rural Development. February 27-28, 2014 Organized by Institute of Agricultural Extension and Rural Development, University of Agriculture, Faisalabad-Pakistan.
2. Shagufta Fahmid and **Ashif Sajjad**. Incidence of aflatoxinm1 in fresh milk marketed in Quetta. Emerging Quality assessment of fresh yogurt in Quetta. Horizons of Agricultural Extension for Sustainable Rural Development. February 27-28, 2014 Organized by Institute of Agricultural Extension and Rural Development, University of Agriculture, Faisalabad-Pakistan.
3. Shagufta Fahmid, **Ashif Sajjad** and Jaffar Ali. Determination of chemical composition of milk marketed in Quetta. Horizons of Agricultural Extension for Sustainable Rural Development. February 27-28, 2014 Organized by Institute of Agricultural Extension and Rural Development, University of Agriculture, Faisalabad-Pakistan.
4. Fouzia Noreen, **Ashif Sajjad**, Zahid Mehmood, Hashim Jan and Dildar ali. Azo-Napthalene light harvesting oligomers & block copolymers via satable free redical polymerization (SFRP). Chemical trends 2013 A Conference on Recent Trends in Chemical Research. 27 September 2013, Lahore, Pakistan.
5. Fouzia Noreen, **Ashif Sajjad**, Zahid Mehmood, Hashim Jan and Dildar ali. Azo-naphthalene Light Harvesting Oligomers & Block Copolymers Via Stable Free Radical Polymerization (SFRP). Conference on Energy and Sustainability, 27 April, 2013. Ogranized by NED University of Engineering and Technology, Karachi, Pakistan.
6. **Ashif Sajjad**, Sabeena Rizwan, Ayesha Ubaid, Dildar Ali, Zahid Mehmood. "Purification and electrophoretic (SDS-PAGE) profile of Pistachio (*pistachia atlantica*) Phospholipase-D". 11th International & 23rd National Chemistry Conference 2012. October 15-17, 2012. University of Peshawar, Pakistan.
7. Sabeena Rizwan, **Ashif Sajjad**, Ayesha Ubaid, Masoom Yasinzai. "Isolation and activity determination of Phospholipase D (PLD) from Pistachio (*pistachia khinjuk*)". 10th International & 22nd National Chemistry Conference 2011. November 21-23, 2011 University of Agriculture, Faisalabad. Pakistan.
8. Ayesha Ubaid, **Ashif Sajjad**, Sabeena Rizwan, Dildar Ali. "Analysis of some Heavy metals in Meat, Kidney and liver of slaughter animals of Quetta city". 10th International & 22nd National Chemistry Conference 2011. November 21-23, 2011 University of Agriculture, Faisalabad. Pakistan.
9. Anna Russo, **Ashif Sajjad**, Anna Napoli, Enzo Perri, Giovanni Sindona. "Characterization of Olive Seed Storage Proteins from Different Cultivar by SDS-PAGE and MALDI Mass Spectrometry". Italian Proteomic Association Conference. 26-29 June 2007, Acitrezza (Catania), Italy.
10. Donatella Aiello, Antonio De Nino, Anna Napoli, Enzo Perri, **Ashif Sajjad**, Giovanni Sindona. "Extraction and characterization of olive (*Olea europaea* L.) fruit proteins from Italian cultivars by Gel Electrophoresis and MALDI TOF/TOF Mass Spectrometry". XXII Congresso Nazionale della Societa Chimica Italiana, 10-15 Settembre 2006, Firenze, Italy.
11. Renato Dalpozzoa, Antonio De Nino, Leonardo Di Donna, Silvia Mazzuca, Anna Napoli, **Ashif Sajjad**, Giovanni Sindona, Atonia Spadafora. "*Determinazione e caratterizzazione di proteine e peptici in olio extravergine d'oliva mediante elettroforesi su gel e spettrometria di massa MALDI-TOF/TO*". XIX Congresso di Chimica Analitica, 11-15 Settembre 2005, Pula (CA), Italy.
12. Innocenzo Muzzalupo, Nicola Lombardo, Massimiliano Pellegrino, Enzo Perri, **Ashif Sajjad**. "*Characterisation of Olive germplasm from Abruzzo region*". ISBN 88-900622-6-6. XLIX Italian Society of Agricultural Genetics Annual Congress 12-15 September, 2005, Potenza, Italy.
13. Nicola Lombardo, Innocenzo Muzzalupo, Enzo Perri, **Ashif Sajjad**. "*Characterisation of olive germplasm from Molise region by microsatellite markers*". XVII International Botanical Congress, Vienna, Austria Center , 17 - 23 July 2005.
14. Donatella Aiello, Danielle Matrici, **Ashif Sajjad**, Leonardo Di Donna, Fabio Mazzotti, Enzo Perri, Anna Napoli, Giovanni Sindona. "*Proteic profile of the Olive Pollen by MALDI TOF/TOF*". 53rd ASMS Conference", 5-9 June 2005, San Antonio, USA.
15. Anna Napoli, Danielle Matrici, **Ashif Sajjad**, Enzo Perri, Giovanni Sindona. "*Profiling of the Olive Pollen by MALDI-TOF/TOF*". MASSA 2004. An International symposium on Mass Spectrometry, 26-30 September 2004, Bari, Italy.

Seminars, summer schools, conferences attended:

1. 11th International & 23rd National Chemistry Conference Peshawar, Pak 15-17 Oct., 2012.
2. 10th International & 22nd National Chemistry Conference Faisalabad , Pak 21-23 Nov., 2011

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| 3. XXII National Congress of Italian Chemical Society, SCI 2006 Florence, Italy. | 10-15 Sept., 2006 |
| 4. International school "Bernardino Telesio" Residential school on applied Mass Spectrometry and related topics. Organised by University of Calabria, Italy | 02-09 Sept., 2006 |
| 5. XIX National Congress of Analytical Chemistry, Italian Chemical Society. Pula, Cagliari, Italy. | Sept., 11-15, 2005 |
| 6. Workshop on Biopolymers: Thermodynamics, kinetics and mechanics of DNA, RNA and Proteins. Organized by International centre for theoretical physics (ICTP), Trieste, Italy | 30 May-3 June 2005 |
| 7. Theoretical Course "RNA structure and function", Organized by Institute of Cell Biology/CNR, Rome, Held at Trieste, Italy | April 4 - 7, 2005 |
| 8. Bioinformatics and Genome Data Analysis, Organized by Centre de Biotechnologie de Sfax, Tunis. | Mar 24-April 2, 2005 |
| 9. Practical Course "Bioinformatics: Computer Methods in Molecular Biology" <i>Organized by:</i> Sándor Pongor, ICGEB, Trieste, Italy | 25 June - 2 July, 2004 |
| 10. International Symposium on Mass Spectrometry in Proteomics & Molecular Profiles. Organised by University of Calabria & Italian chemical society, Italy | 29 January, 2004 |